A Summer of Maps

With Nick Boyce
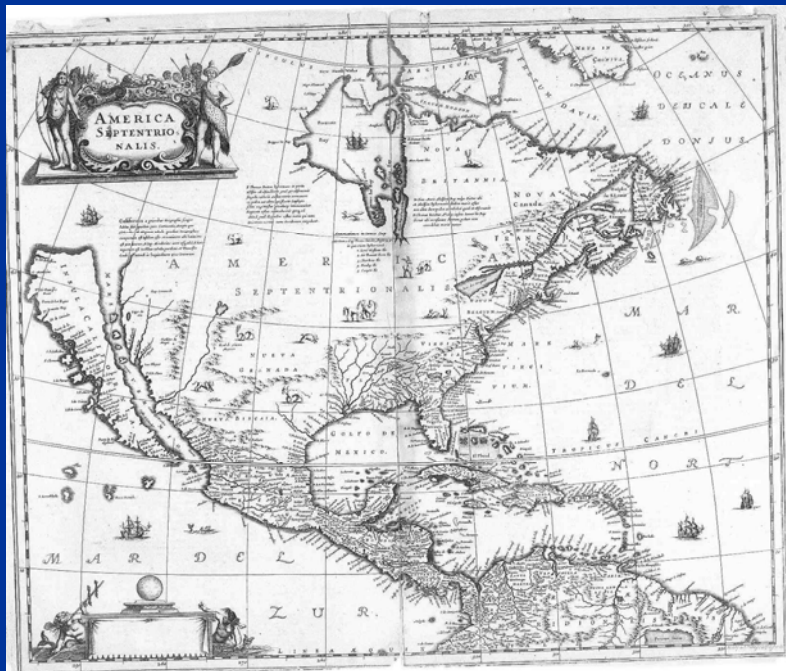
About me

-I like to ski

-I go to UW

-I enjoy long walks on the beach

Maps + Nerds = GIS

-Geographic Information Systems

-Displays and analyzes spatial information

-Valuable final product

-Tedious path getting there

My role in GIS at WTD

- **Engineering as-built links**
- **Manhole locating with GPS**
- **Assorted maps**
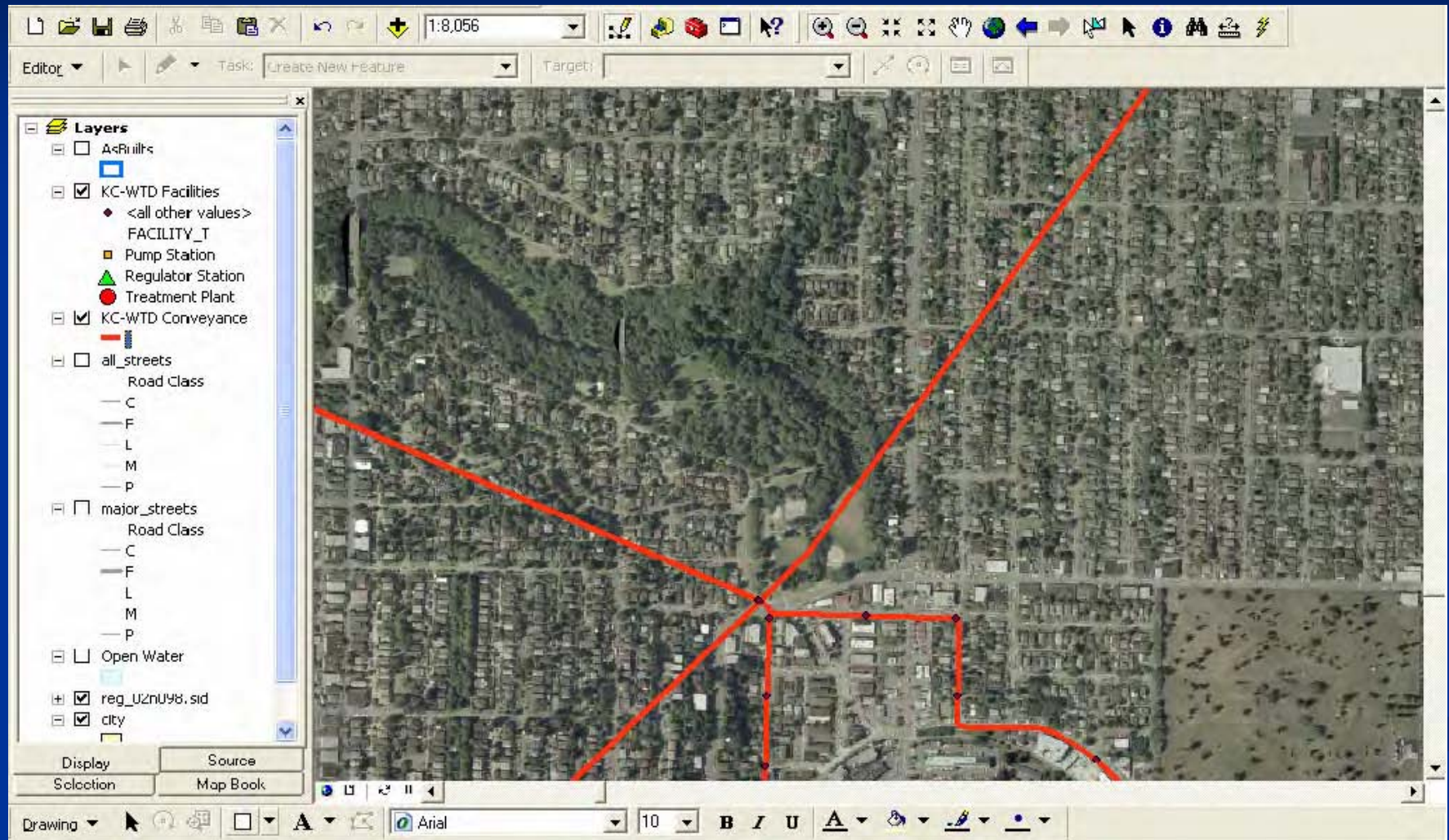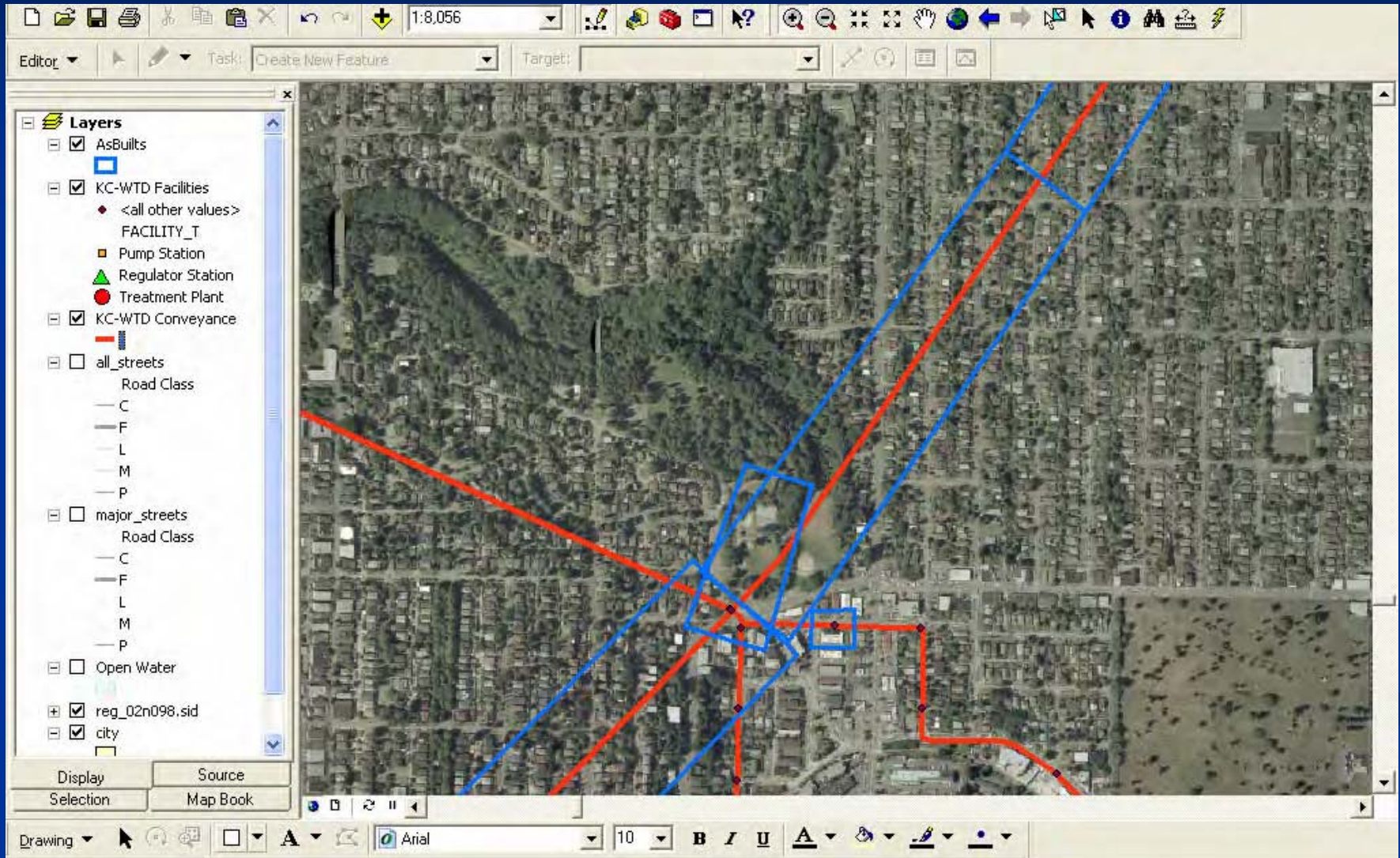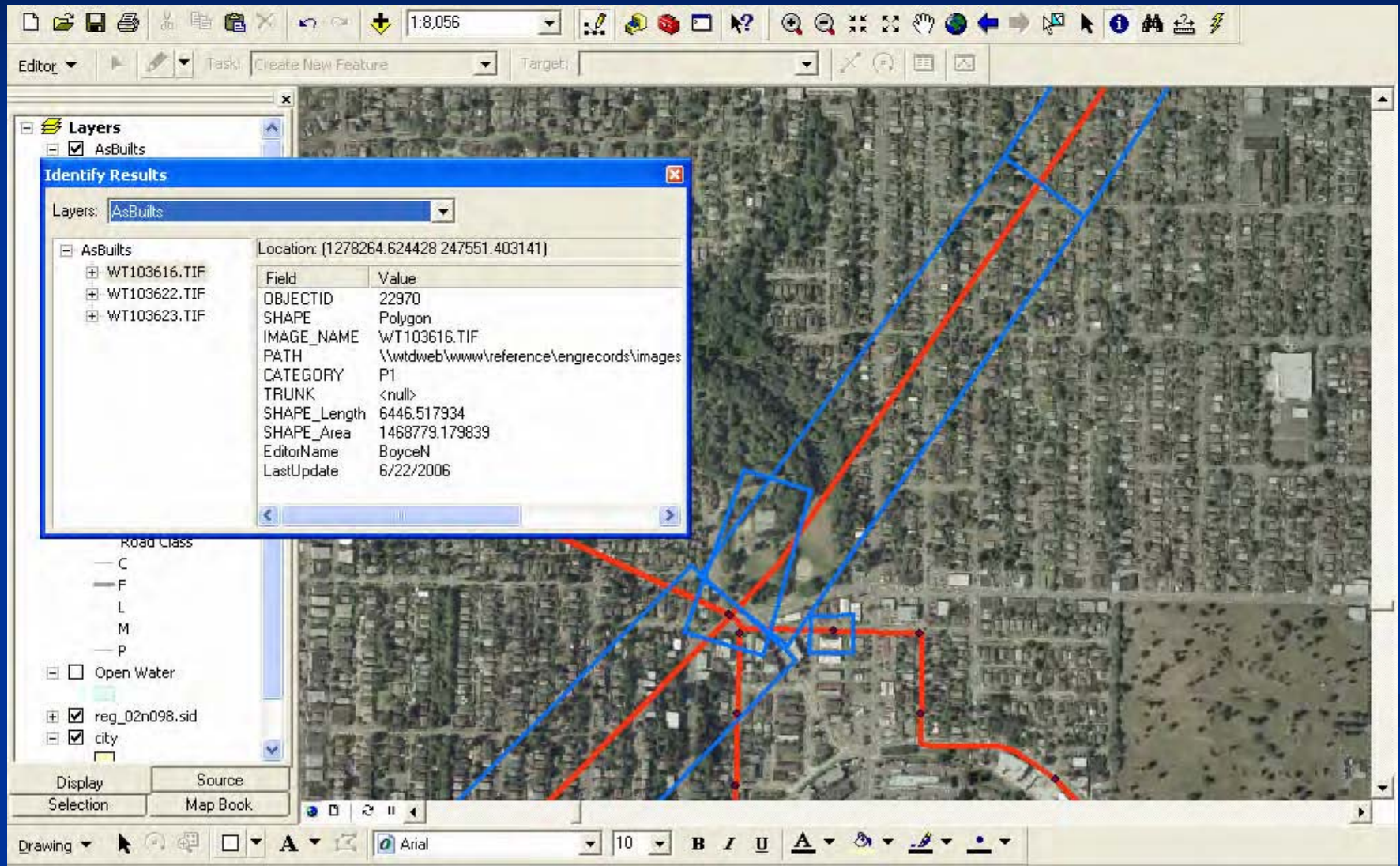- **Moral support**

Peter

Mary

Me

Shaun

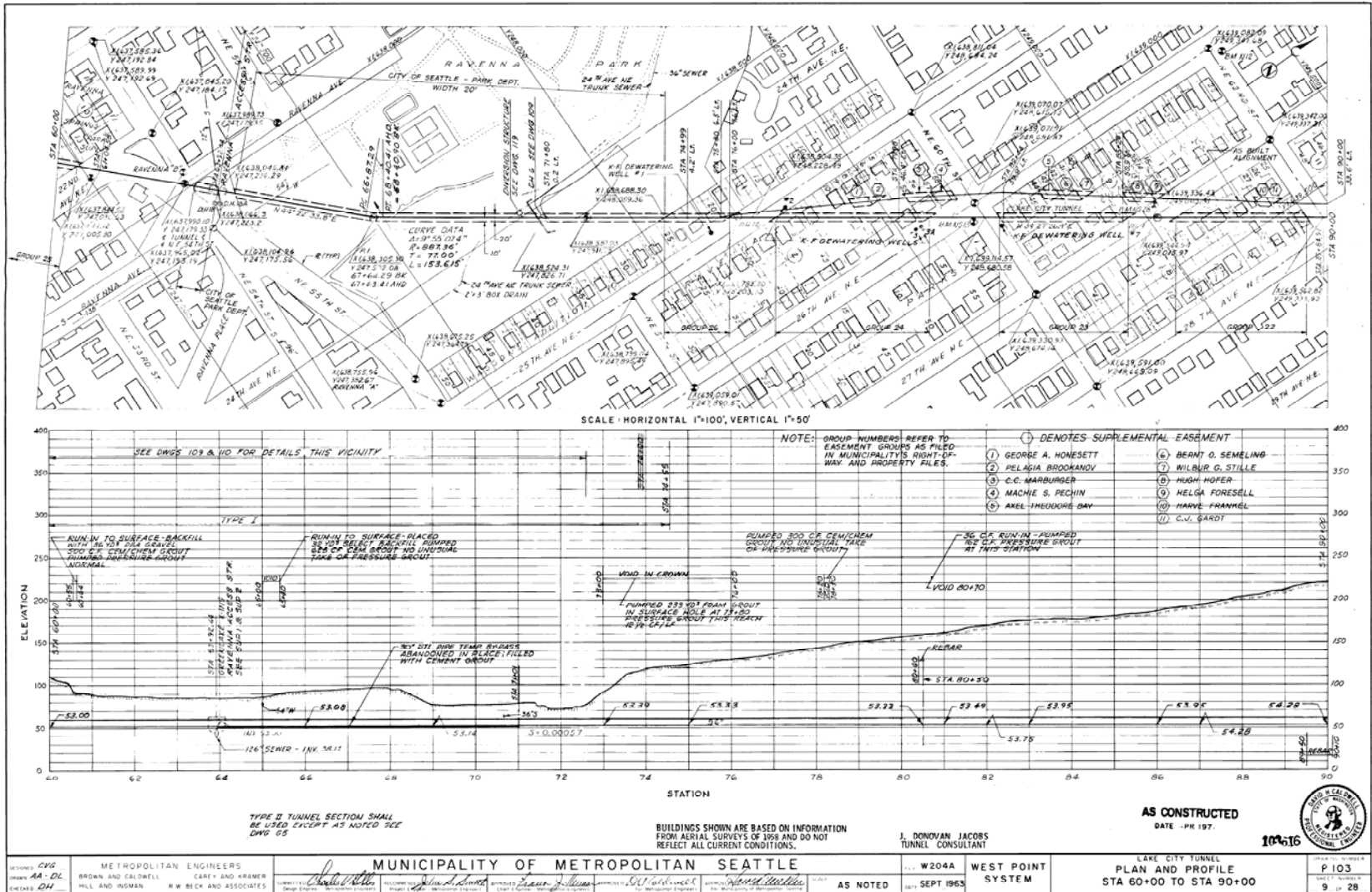Shari

Engineering drawings: Step 1

Engineering drawings: Step 2
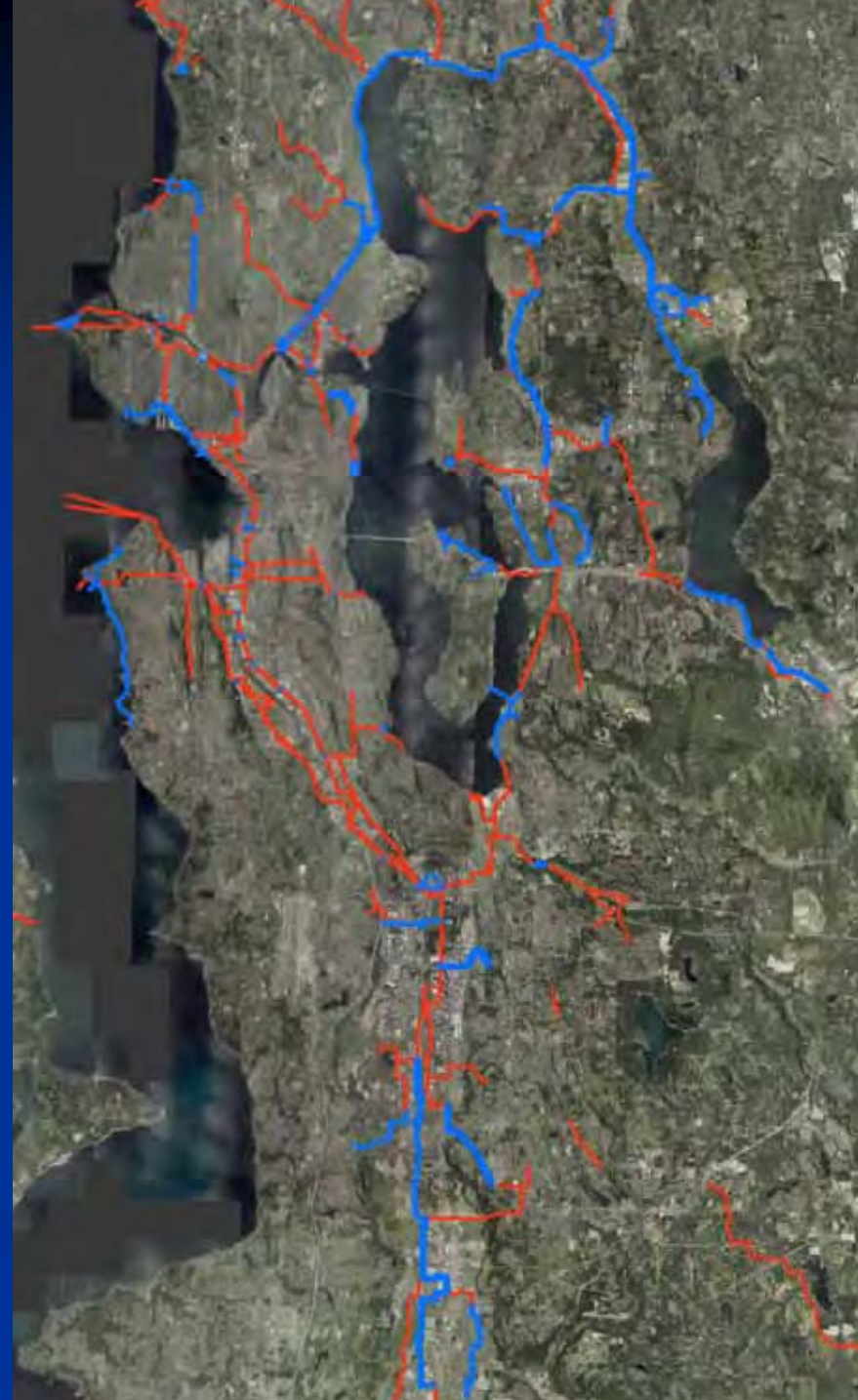
Engineering drawings: Step 3
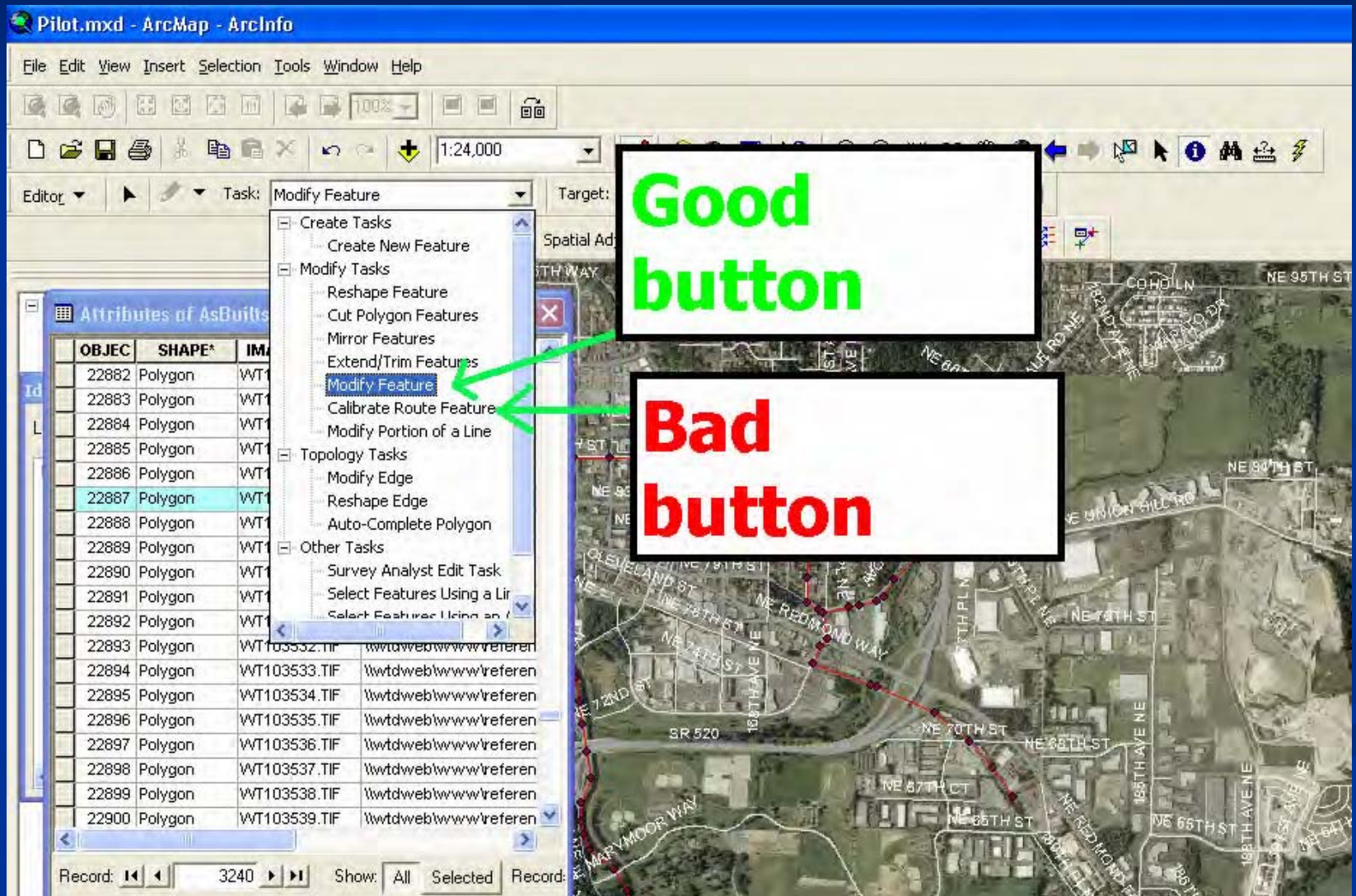
Engineering drawings: Step 4
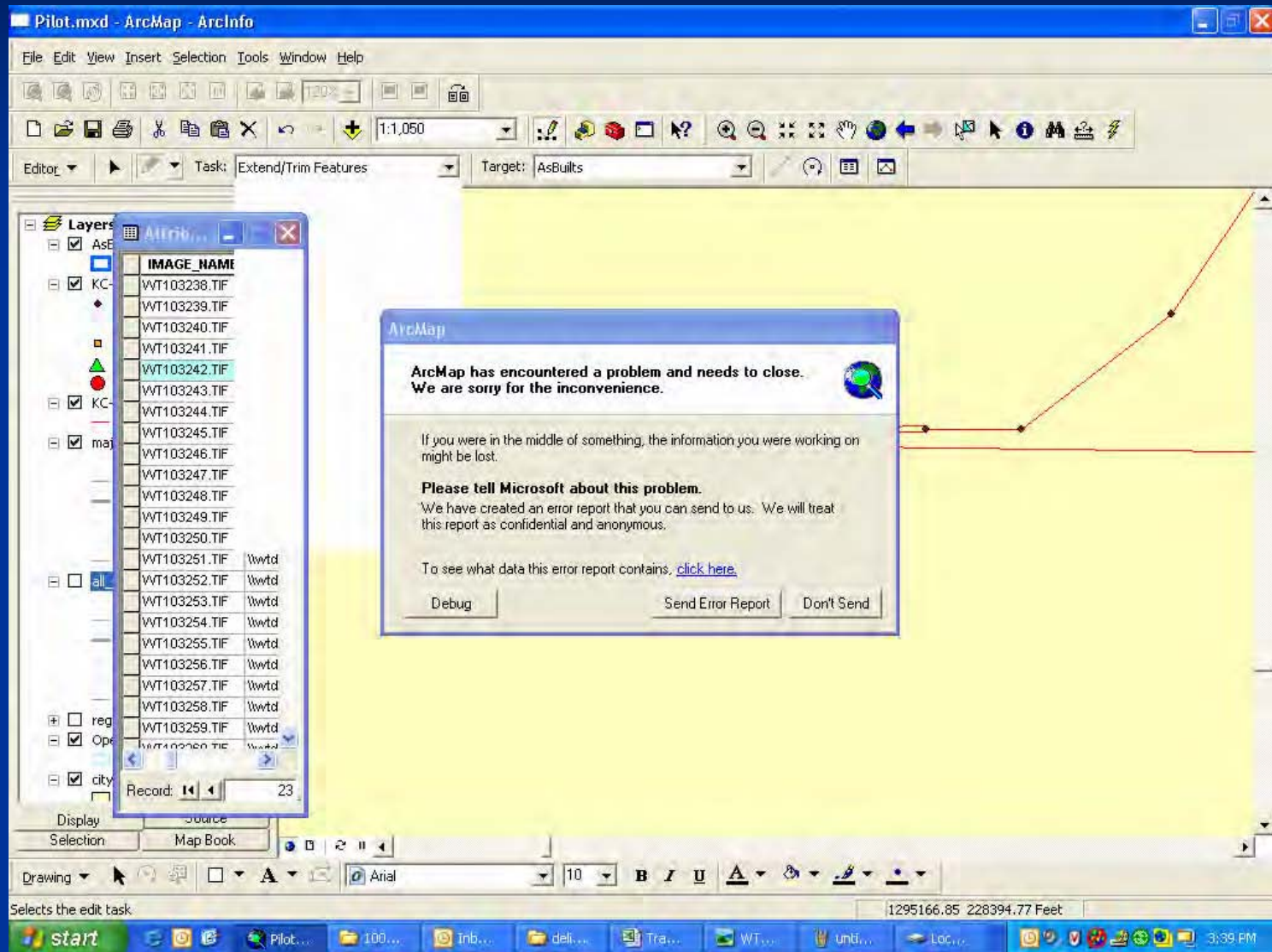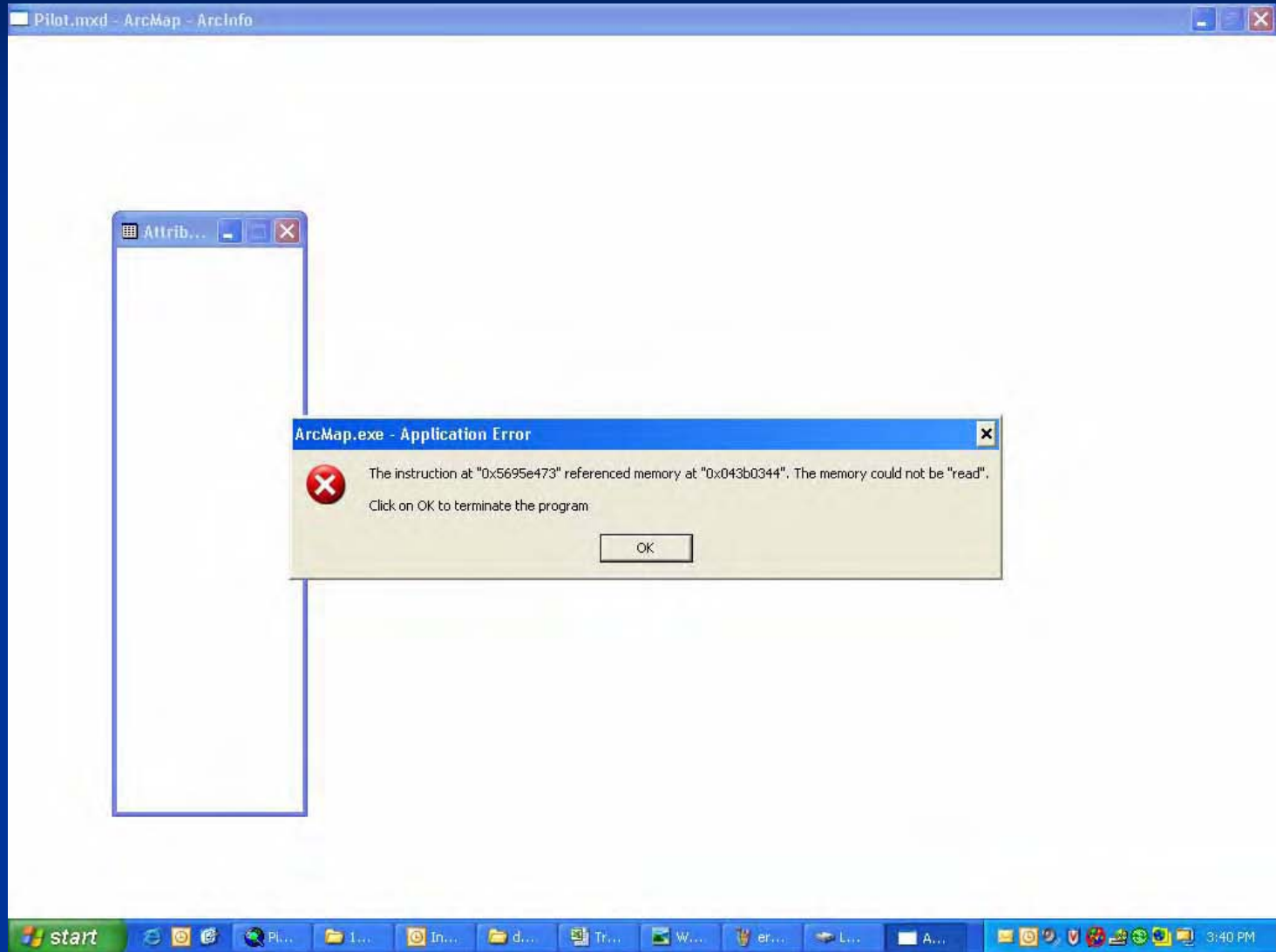
Total Progress:

- 4,700 down
- 16,800 to go

Engineering drawings: Issues

Engineering drawings: Issues

Engineering drawings: Issues

GPS manhole locating & recording

Why: current manhole locations in GIS files not always accurate

How: handheld GPS, one-lines, as-builts, wandering around, standing in the road

This is what the manhole sees

GPS manhole locating & recording

Then: compare against and correct GIS files

Someday: a whole database of facility locations with 1-meter accuracy

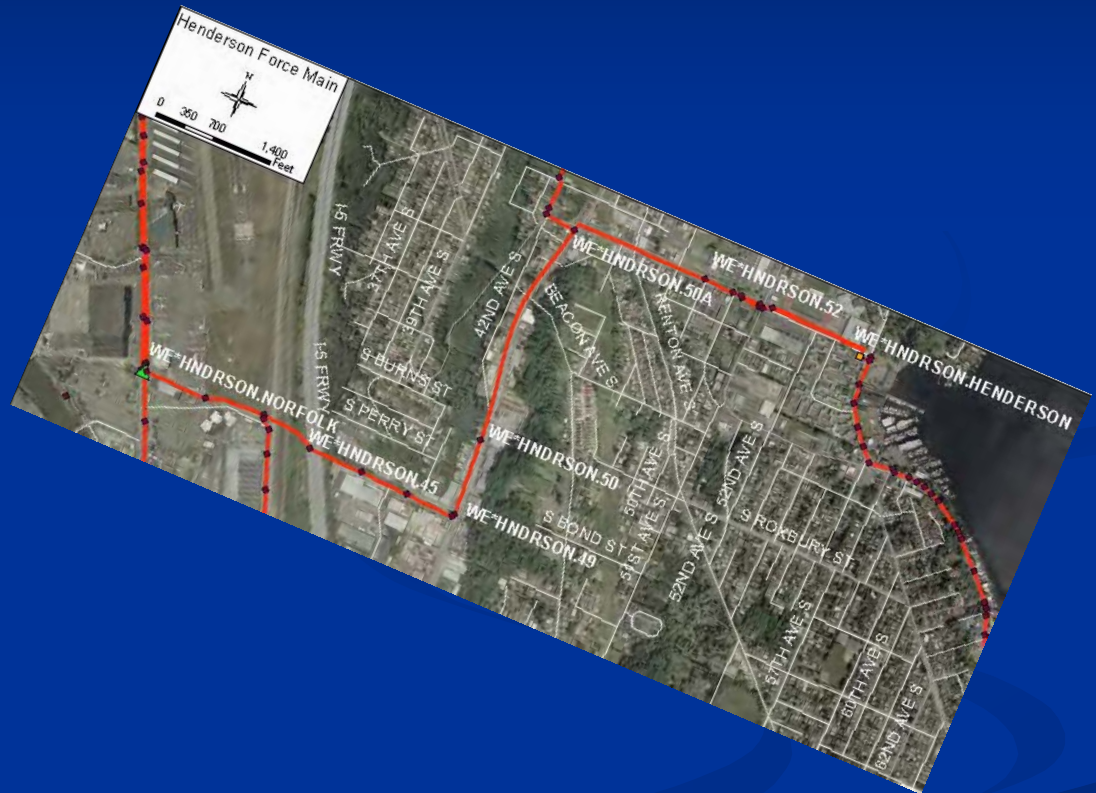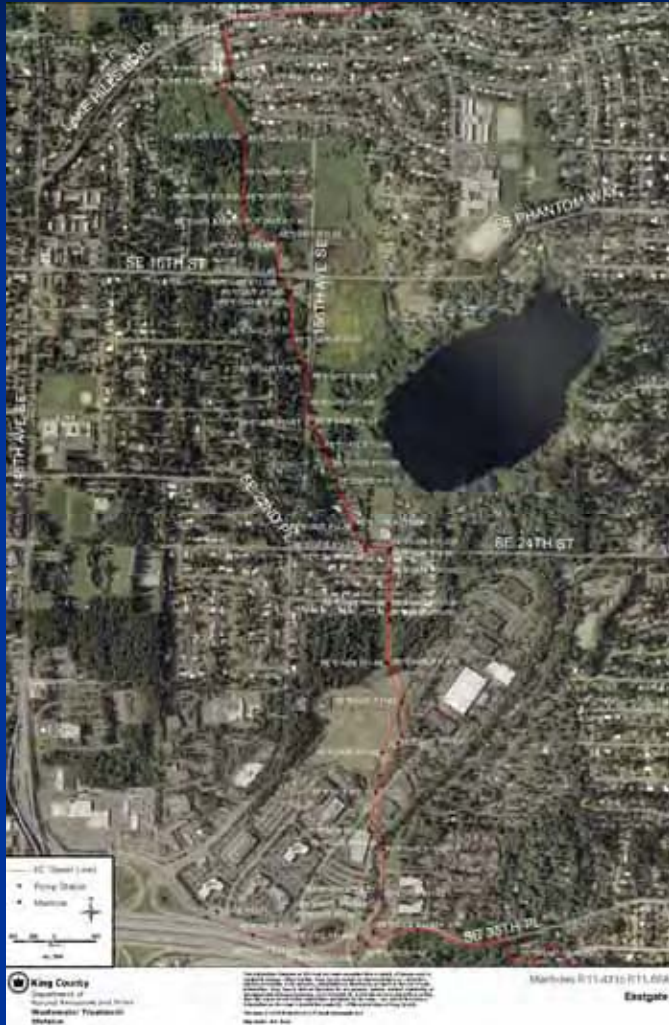**Birds eye view**

Now: about 600 out of 3900 done

GPS manhole locating: Problems

Where's the manhole?

-In the street

-Deep in the woods

-Underground

-Behind a fence

-Clearly marked in a safe, logical location (not really)

I also made some maps

Any questions?